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Aziridinyl compounds

PA Dow Chemical Co.
SO Neth. Appl., 11 pp.
DT Patent
LA Dutch

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AB Aziridinyl alcs. (I) are treated with carboxylic acid esters. Thus, into a 3 l. distilling vessel, equipped with a distillation column filled with Cu and containing 1762 g. EtOAc (dried with mol. sieves) under reflux, was added in 29 min. 164.5 g. N-(2-hydroxyethyl)aziridine, containing 9.5 g. Na 2-(1-aziridinyl)ethoxide and the mixture refluexed 7 hrs. while separating 940 g. azeotrope of EtOH-EtOAc to give 185.5 g. 2-(1- aziridinyl)ethyl acetate, b63 99-100°, d20 1.004, n 25 D 1.4315. Similarly were obtained the analogous following 2-(1- aziridinyl)-ethyl esters (ester and properties given): butyrate, b1.5 66°, d20 0.958, n 24 D1.443; methacrylate, b0.1 44-50°, d20 1.014, n 20 D 1.4585; acrylate, b0.75 37°, d20 0.990, n 20 D 1.4642; benzoate, b0.13 90-100°, d20 1.100, n 23 D 1.5193. Bis[2-(1-aziridinyl)ethyl]adipate b0.2 135°, d20 1.079, n 23 D 1.4674. 2-(1-Aziridinyl)isopropyl acetate b2.25 45°. The compds. are useful as inhibitors of the corrosion of Al by halogenated hydrocarbons, e.g. 1,1,1-trichloroethane